
Section VI - METHODS OF MANAGEMENT: FACILITIES & PROGRAMS TO BE USED

A. DISTRICT METHODS FOR MANAGEMENT OF SOLID WASTE

1. Calculation of Capacity Needs Based upon Waste Generation

Information regarding solid waste management methods used in the District for the total solid waste generated in 2003 and the projected waste generation quantities for the 17-year planning period are provided in Table VI-1.

Residential/Commercial Solid Waste

Table VI-2 provides the solid waste management methods used in the District for residential/commercial solid waste for the baseline year and projected 17-year planning period up to 2022.

Industrial Solid Waste

Table VI-3 provides the solid waste management methods used in the District for industrial solid waste for the baseline year and projected 17-year planning period up to 2022.

B. DEMONSTRATION OF ACCESS TO CAPACITY

The District's future needs for additional disposal capacity are predicated upon the projections for solid waste generation, recycling activities, waste minimization activities and disposal restrictions as discussed in Section III. These projections were used to calculate the aggregate quantities of in-District solid waste, which must be disposed of in solid waste facilities during the plan period 2006 - 2022.

The District's future needs for additional disposal capacity are based upon the projections for solid waste generation, recycling activities, waste minimization activities and disposal restrictions as discussed in Section V. These projections were used to calculate the aggregate quantities of in-District solid waste, which must be disposed of in solid waste facilities during the plan period, 2006 - 2022. As identified in Table VI-4, the District is projecting disposal of approximately 312,634 to 220,891 tons of solid waste annually in Mahoning County landfills over the course of the planning period.

Historically and during the reference year, 95% of the landfilled district waste (industrial, residential and commercial) is being disposed of in Mahoning County landfills. Furthermore, Mahoning County generated waste only represents 16% of the waste being disposed in the landfills located within the District. Examining the residential and commercial solid waste, the local percentage is even greater. Over ninety-nine percent (99.6%) of all residential/commercial solid waste going to landfills is being landfilled within the District. Given the geographic presence of three (3) landfills within the District very little Mahoning County waste is actually disposed out-of-District. This trend is projected to continue throughout the planning period.

By resolution (refer to Appendix H), the District had designated twenty-seven (27) landfills as disposal locations for Mahoning County generated waste. Two of the twenty-seven (27)

facilities designated by the 1994 resolution have since ceased operations. Twenty-five (25) designated facilities currently remain active. However twelve (12) of these facilities are projected to fill the remainder of their permitted capacity during the planning period. The most significant in terms of historic receipt of Mahoning County waste is AWS Mahoning Landfill, which is located in Mahoning County. This facility has historically received approximately 40% of the waste generated within the District. Assuming no increased permitted capacity, the facility will cease to receive waste after 2013. It is presumed that the majority of this waste will simply shift to the BFI Carbon Limestone landfill also located within the District. This presumption is based on the waste hauling economics and given the close proximity and capacity of the landfill.

Table VI-4 demonstrates the landfills that the District anticipates using throughout the planning period. As demonstrated in Table VI-4, in-district landfill capacity is available for disposal of district generated waste throughout the planning period. This is the case even with the assumption that the AWS Mahoning Landfill facility will cease operations.

Although it is feasible that BFI Carbon Limestone Landfill will receive a majority of District waste during the planning period, the following table demonstrates that there are numerous other options available. The District's designated landfills are listed below along with the remaining air space, placement capacity and distance from the County. Facilities located within Mahoning County are shown as 0 miles away. The listed distance for facilities out-of-district is calculated from the District's urban center, the City of Youngstown.

Access to Landfill Facilities & Distance from District				
Facility used by the District (Name and Location)	Capacity Tons/day	Permitted Tons for Placement	Distance from District (miles)	Years Remaining
BFI CARBON LIMESTONE LANDFILL Browning-Ferris Industries of Ohio, Inc. Carbon-Limestone Sanitary Landfill 8100 South State Line Road Lowellville, OH 44514	6,500	31,318,858	0	20.9
AWS MAHONING LANDFILL American Waste Services, Inc. Mahoning Landfill, Inc. 3510 Garfield Road New Springfield, OH 44443	2,500	3,497,479	0	10.5
CENTRAL WASTES LANDFILL Central Wastes, Inc. 12003 Oyster Rd Alliance, OH 44601	3,000	140,780	0	0.8
AMERICAN LANDFILL American Waste Services, Inc. American Landfill, Inc. 7916 Chapel Street, SE Waynesburg, OH 44688	15,000	6,303,352	59	3.9
AWS AMERICAN TIRE MONOFILL American Waste Services, Inc. The American Tire Monofill 7916 Chapel Street, SE Waynesburg, OH 44688	492	529,893	59	74

RW COUNTYWIDE LANDFILL Countywide Recycling and Disposal Facility 3619 Gracemont Avenue, SW East Sparta, OH 44626	7,000	53,530,821	70	38.8
KIMBLE SANITARY LANDFILL Kimble Clay and Limestone Kimble Sanitary Landfill 3696 State Route 39, NW Dover, OH 44622	5,000	27,521,517	84	92.3
SUBURBAN SOUTH R&D FACILITY LANDFILL Waste Management of North America, Inc. Suburban South Recycling and Disposal Facility State Route 668 P.O. Box 17 Brownsville, OH 43721	5,000	14,256,788	160	23.5
LIBERTY TIRE / C&E COAL TIRE PROJECT 14864 Lincoln Street SE Minerva, OH 44657	500	5,178.70	48	0.2
EVERGREEN R&D LANDFILL Waste Management of Ohio, Inc. Evergreen Recycling and Disposal Facility 2625 East Broadway Northwood, OH 43619	7,500	6,374,596	165	14.1
Waste Management of PA, Inc. Lake View Landfill 851 Robinson Road East Erie, PA 16509	5,000	2,279,707	100	1.6
WMX Technologies, Inc. (Formerly Waste Management, Inc.) Northwest Sanitary Landfill, Inc. P.O. Box 1798 1436 W. Sunbury Rd Butler, PA 16003-1798 W. Sunbury, PA 16061	2,500	2,418,452	46	3.72
Rumpke Waste, Inc. Sanitary Landfill 9427 Bayers Road Georgetown, OH 45121	2,500	727,000	214	4.7
Rumpke Sanitary Landfill, Inc. 10795 Hughes Road Cincinnati, OH 45251	8,600	8,345,982	290	4.4
Browning-Ferris Industries of PA, Inc. Imperial Sanitary Landfill P.O. Box 47 11 Boggs Road Imperial, PA 15126	4,666	18,753,422	60	21.5
Browning-Ferris Industries of OH, Inc. Willowcreek Sanitary Landfill 1187 State Route 225 Atwater, OH 44201	Closed			
Seneca Landfill P.O. Box 1080 Mars, PA 44201	3,000	12047620	53	7.8

Browning-Ferris Industries of PA, Inc. Greentree Sanitary Landfill 635 Toby Road Kersey, PA	6,000	12,480,045	126	6.5
Stericycle Inc. (Browning-Ferris Industries Medical Waste Systems, Inc. Warren Medical Waste) 1901 Pine Avenue, SE Warren, OH			14	
Max Disposal and Recycling 1356 Harrisburg Road P.O. Box 2688 Alliance, OH 44601-0688	Closed		40	
American Waste Services, Inc. East Liverpool Landfill 44295 Y&O Road Madison Township, OH 43968	Closed			
Athens-Hocking Reclamation Center P.O. Box 946 Logan, OH 43138	2,500	13,077,600	211	75.8
Doherty Sanitary Landfill, Inc. (aka Geneva Landfill) 2581 Tuttle Road Geneva, OH 44041	2,100	1,414,287	68	3.9
County Environmental Wyandot Landfill 11164 County Road 4 Carey, OH 43316	3,500	18,412,680	161	54.2
Pine Grove Regional Facility Landfill 5131 Drinkle Rd SW Amanda, OH 43102	5,000	12,517,810	204	43.7

1. Current Management Methods

The District's waste generation is projected to vary during the plan period (Table VI-1) between 428,927 in 2006 to 396,128 tons in 2022. As stated before, the District currently manages the solid waste generated in the district by the following methods:

Recycling

In the initial years of the plan period, the District plans to increase residential/commercial recovery from 19,390 to 51,468 by 2010. This will be accomplished by increasing collected tons of solid waste through the curbside recycling, drop-off sites, the commercial entity program and improving scrap metal reporting from recyclers/brokers. Another 53,630 to 69,954 tons of industrial solid wastes are also projected to be recovered annually.

Processing of recyclables will require adequate processing capacity in recycling facilities. Existing recycling facilities in and around the District as well as an anticipated privately owned and operated MRF will handle all recyclables.

In 2003, 88,145 tons of generated solid waste was recycled, composted or reduced in the residential, commercial and industrial sectors. The projected annual tonnages processed by recyclers/brokers utilized by the District are presented in Table VI-4.

Yard Waste Recycling

Between 36,500 tons of yard waste per year, (based on 102,587 households) and 26,500 (based on 74,654 Owner occupied housing units) including about 7,000 tons of leaves, are projected to be generated annually over the plan period. Much of this yard waste will be avoided through promotion of the concept of "Don't-Bag-It". The aim of this concept is to encourage landowners to leave grass clippings on the lawn instead of bagging them. Yard waste generation is typically one ton per year per 5,000 square feet of yard or as based on a 2001 Fairfax County Virginia Study yard waste generation approximately 710 lbs of yard waste per household is anticipated with modern practice of mulching mowers. Composting facilities are expected to recycle the remaining yard waste. Approximately 16,900 reported tons of yard wastes were recycled in 2003. However, a tracking error at one of the Municipal facilities has become apparent upon a change in management personnel. The yard waste recycled in 2003 is realistically 5,000 tons. The District's new Leaf Collection Program will also improve yard waste collections in the autumn season. The projected annual tonnages processed by composters utilized by the District are presented in Table VI-4.

Household Hazardous Waste

The services associated with the Household Hazardous Waste (HHW) Project events have been contracted to various private entities such as Clean Harbors, Niles Iron and Metal, Battery Solutions. The projected annual tonnages processed by these specialized contractors utilized by the District are presented in Table VI-4.

Landfilling

A total of 4,589,976 tons of District solid waste is projected for landfilling of over the entire plan period (Table VI-1). The District will use the designated landfills (and in small amounts the identified landfills) in Table VI-6 to deposit all residual waste after recycling and reduction diminishes the total amount of waste generated over the period.

Generation of used tires is estimated to be between 1,600 to 1,700 tons each year of the plan period. The tires are recycled and reused. American Waste Services operates a waste tire mono-fill in Stark County, Ohio where most District Tires are recycled and residuals disposed.

2. New Solid Waste Disposal Facilities

The District is not planning to build any new solid waste disposal facilities. However, a new privately owned and operated material recycling facility is anticipated during the plan period.

3. Existing Solid Waste Disposal Facilities Requiring Additional Capacity

The amount listed in the capacity needed line for each year of these landfills is based upon District needs for disposing of municipal and industrial waste. Projected residential/commercial solid waste disposal is estimated between 253,106 and 188,473 tons annually for the plan period 2006-2022 (Table VI-2).

The District's industrial waste generation is projected to be 130,642 tons in the reference year. And estimated 51,775 tons were reduced and recycled. Industrial recycling is anticipated to divert between 53,630 and 69,954 tons annually for the plan period. The Plan expects a continued decline in the industrial waste generation in conjunction with increased recycling. Industrial waste landfill disposal is estimated between 71,079 and 28,597 tons annually during the plan period 2006-2022 (Table VI-3).

During the Plan period, total projected solid waste disposal is estimated to decrease from 328,658 tons in 2006 to 221,543 in 2022 (Table VI-1).

C. SCHEDULE FOR FACILITIES AND PROGRAMS

As stated above, all solid waste management programs in the District that are in place will remain. The lone exception is the CERTT program, which ended in 2004. The District's Appliance and Electronics Drives are anticipated to be privatized by 2010. While the drives will not be conducted by the District the services will remain active. The Competitive Funding program is to be phased down during the upcoming 5-year planning cycle. Beyond the year 2010, funding of the grants will be determined on a year to year basis. The District foresees starting new re:Create, waste assessment, and leaf collection programs, expanding the drop-off and Commercial Office Paper Recovery programs, and initiating a new (private) material recovery facility and a new District Headquarters during the planning period. Table VI-5 shows the schedule for facilities and programs described in the previous sections.

D. IDENTIFICATION OF FACILITIES

Table VI-6 identifies the solid waste disposal facilities, which the District intends to use throughout the planning period. At this time, the County intends to utilize all existing recycling facilities and programs as stated in Section III. However, a new privately owned and operated MRF in Mahoning County may alter the flow of materials.

E. AUTHORIZATION STATEMENT TO DESIGNATE

The Board of Directors of the Mahoning County SWMD is hereby authorized to establish facility designations in accordance with Section 343.014 of the ORC. See resolution numbers RES 94-223 and RES 94-471 in Appendix H for facilities currently designated.

F. WAIVER PROCESS FOR UNDESIGNATED FACILITIES

The District, in cooperation with the Board of Health, has developed procedures for issuing a waiver to allow solid waste to flow to undesignated facilities. The District acts on all waivers requested in writing and submitted to the Policy Committee and Board of Health. These procedures are developed in accordance with Section 343.01(I)(2) of the ORC. The District must act on a waiver request within 90 days after receipt with the Board of Health, and must establish steps to evaluate the impact of issuance of the waiver upon:

- Projections contained in the District's approved (or ordered to be implemented) plan under Section 3734.53(A)(6) and (A)(7); and
- Implementation and financing of the District's approved plan.

G. SITING STRATEGY FOR FACILITIES

The Mahoning County Solid Waste Management District only foresees a potential proposal of a new privately owned and operated material recycling facility (MRF) and a new District Headquarters. The District does not propose any new sanitary landfill facility during the planning period for management of the solid waste generated within the District. For planning purposes, this plan will continue to present siting strategy for all facilities:

This section outlines the strategy that will be used to evaluate sites for any proposed solid waste facilities within the District. The strategy identifies appropriate data required for a preliminary site survey for new facilities. The roles of various entities such as the Board of Mahoning County Commissioners, Solid Waste Policy Board and its operational committees, local governments and the public are explained. The strategy includes Ohio EPA, U.S. EPA and District siting criteria by which specific locations will be evaluated and ranked. Additionally, a process of dispute resolution and mediation is suggested to reduce potential conflicts, foster communication between involved parties and resolve site impasses. The final results of the process outlined in this section are to be expressed in a written agreement that will set out any negotiated limitations placed upon new facility and shall be binding on all parties.

A solid waste facility could be owned by a public, quasi-public or private entity. Although the District plan does not include construction of any new facilities, the evaluation strategy described in this section will apply to all proposed facilities regardless of ownership.

1. Preliminary Site Survey

Proposed developers of solid waste facilities should obtain a current copy of the solid waste regulations and other existing siting criteria guidance from the district office of the Ohio EPA (address: Northeast District Office, 2110 E. Aurora Road, Twinsburg, Ohio 44087-1969; phone: 440-425-9171).

If a private business or government agency plans to construct a new facility, they must submit a Permit-to-Install (PTI) application to the Ohio EPA. Along with this application, the entity is also required to submit the following environmental and socioeconomic data for the proposed site to the District. Most of the information listed below is available from the Ohio DNR, Ohio EPA, Mahoning County Planning Commission, Mahoning County Soil and Water Conservation District, Ohio Historic Preservation Office and local governments.

1. The location of the site, including property boundaries, in relation to political subdivisions and communities, highways and county roads;

2. The location of the following within on half a mile of the proposed site;
 - i. Residential, commercial, industrial and institutional buildings;
 - ii. Applicable zoning and land use classifications;
 - iii. Roads and railroads;
 - iv. Limits of floodplain areas;
 - v. Existing topography including vegetation, rivers, creeks, intermittent streams, lakes, ponds, wetlands, and other surface waters;
 - vi. Any other significant features of the area;
 - vii. Parks, nature preserves, wildlife areas, state scenic rivers and exceptional wildlife habitats.
3. Surface drainage patterns within 500 feet in all directions beyond facility boundaries;
4. Location of public and private water supply wells within 1,000 feet in all directions beyond facility boundaries.

2. Siting Process

The Mahoning County Board of Commissioners (BMCC), District Policy Committee (DPC), its applicable operating committees, Mahoning County Solid Waste Management District staff (District), and the municipality or township where the facility will be sited will follow a specific review process for the evaluation of a proposed solid waste facility. The siting process will primarily consist of two procedures. First, each proposed facility will be evaluated in terms of its compliance with the goals and objectives of the District Solid Waste Plan included in the Executive Summary. Second, the proposed facility or site will be examined closely according to the existing Ohio EPA, U.S. EPA and District siting criteria.

The BMCC will make the final decision on every proposed facility and enter into an agreement with the facility owner based on the recommendations of the DPC, its applicable operating committees and the local government where the proposed facility will be located, and citizen input. The DPC will assign its operating committees to review each proposed facility in view of the District's goals, objectives and siting criteria. The committee will create a Task Force to evaluate the proposed facility. The Task Force will submit a written report to the committee within 90 days of its formation. The District planning and engineering staff will support the Task Force in technical review of all pertinent information regarding the facility as identified in the preliminary site survey. After completing the review, the committee will forward recommendations to the DPC. The DPC will submit a resolution stating its recommendation to the BMCC, which will make a final determination and notify all relevant parties in writing.

The District will maintain a list of consultants qualified to provide additional technical review services to the Task Force if there is a need for such services. The list shall contain a minimum of three consultants so that in the event of a conflict of interest, an appropriate outside consultant will always be available to the District. If DPC and its operational committees determine that input from a consultant is necessary, the District will select a qualified consultant in accordance with the Mahoning County contracting process.

3. Ohio EPA Criteria

As required by current applicable ORC sections, the Ohio EPA specifies siting regulations for sanitary landfills, transfer stations and incinerators. The Ohio EPA's Division of Ground Water, and the Division Solid and Infectious Waste Management developed location criteria for these

solid waste facilities to strengthen existing rules. Any locally proposed facility will be evaluated against adopted siting regulations.

4. Sanitary landfill siting criteria

According to the rule 3745-27-06 (H), the Ohio EPA Director shall not approve any detail plans, specifications and information unless he determines that:

- the sanitary landfill is not located in a floodway;

Also under rule 3745-27-06 (I) solid waste disposal regulations, except by means of a waiver granted under 3745-27-11, the Ohio EPA Director shall not approve plans for a sanitary landfill under any of the following conditions:

- The sanitary landfill will be located in a regulatory floodplain outside of a floodway; or
- The sanitary landfill will be located in a sand or gravel pit; or
- The sanitary landfill will be located in a limestone or sandstone quarry; or
- Those portions of the sanitary landfill where waste materials are to be deposited will be located within 1000' of a water well in existence on the date the plans were received by Ohio EPA; or
- Those portions of the sanitary landfill where waste materials are to be deposited will be located within 200' of a stream or lake; or the season high ground waste table and the lowest level of waste materials in the sanitary landfill will be separated by less than 5 feet of soil of low permeability; or
- The seasonal high ground water table will be less than 5 feet below the existing surface of the site.

5. Solid waste transfer facility siting criteria

As defined in rule 3745-27-22 (C), (D), (I), (J) and (K) of the administrative code, the Ohio EPA Director shall not approve any PTI application for a solid waste transfer facility unless the criteria explained below are met:

- (C) The solid waste transfer facility is not located on a floodway;
- (D) The solid waste transfer facility is not located within two hundred feet of any surface waters of the state, as defined in rule 3745-1-01 of the Administrative Code;
- (I) The solid waste transfer facility is not located in any of the following areas, in existence on the date of receipt of the permit to install application by Ohio EPA; however, if the solid waste transfer facility is located within a park or recreation area identified in this paragraph and exclusively manages wastes generated within the park or recreation area, this paragraph shall not apply.
 - National park or recreation area; or
 - Candidate area for potential inclusion in the national park system; or
 - State park or established state park purchase area; or
 - Any property that lies within the boundaries of a national park or recreation area but that has not been acquired or is not administered by the secretary of the United States Department of the Interior.

(J) The solid waste transfer facility is not located within five hundred feet of the following, which are in existence on the date of receipt of the permit to install application by the Ohio EPA:

- Areas designated by the Ohio Department of Natural Resources as either a state nature preserve, a state wildlife area, or a state scenic river; or
- Areas designated, owned, and managed by the Ohio Historical Society as a nature preserve; or
- Areas designated by the United States Department of Interior as either a national wildlife refuge or a national scenic river; or
- Areas designated by the United States Forest Service as either a special interest area or a research natural area in the Wayne National Forest; or
- Surface waters of the state designated by Ohio EPA as either a state resource water, a cold-water habitat, or an exceptional warm-water habitat, as classified in accordance with chapter 3745-1 of the Administrative Code.

(K) All waste handling areas of a solid waste transfer facility are not located within two hundred fifty feet of a domicile in existence on the date the permit-to-install application was received by the Ohio EPA.

6. Solid waste incinerator siting criteria

According to the following rules 3745-27-51 (C), (D), (I) and (J) of the Administrative Code, the Ohio EPA Director shall not approve any PTI applications for a solid waste incinerator facility unless it is determined that:

(C) The solid waste incinerator facility is not located in a floodway; and

(D) The solid waste incinerator facility is not located within two hundred feet of any surface waters of the state, as defined in rule 3745-1-02 of the Administrative Code.

(I) The solid waste incinerator facility is not located in any or the following areas, in existence on the date of receipt of the PTI application by Ohio EPA:

- National park or recreation area; or
- Candidate area for potential inclusion in the national park system; or
- State park or established state park purchase area; or
- Any property that lies within the boundaries of a national park or recreation area but that has not been acquired or is not administered by the Secretary of the United States Department of the Interior.

If the solid waste incinerator facility is located within a park or recreation area identified in this paragraph and exclusively manages wastes generated within the park or recreation area, this paragraph shall not apply; and

(J) The solid waste incinerator facility is not located within two hundred fifty feet of the following, which are in existence on the date or receipt of the PTI application by the Ohio EPA:

- Areas designated by the Ohio Department of Natural Resources as either a state nature preserve, a state wildlife area, or a state scenic river; or
- Areas designated, owned, and managed by the Ohio Historical Society as a nature preserve; or

- Areas designated by the United States Department of the Interior as either a national wildlife refuge or a national scenic river; or
- Areas designated by the United States Forest Service as either a special interest area or a research natural area in the Wayne National Forest; or
- Surface waters of the state designated by Ohio EPA as a state resource water, a cold-water habitat, or an exceptional warm-water habitat, as classified in accordance with chapter 3745-1 or the Administrative Code.

7. U.S. EPA Siting Criteria for Yard Waste Composting Facilities

The Federal Aviation Administration (FAA) considers yard waste composting facilities potential bird hazard to aircraft. Consequently, the FAA has developed location criteria for composting facilities that should be located at least:

- 5,000 feet from an airport servicing piston-driven aircraft only; and
- 10,000 feet from an airport servicing turbo-driven aircraft.

9. District Siting Criteria

Three categories of district siting criteria are identified: engineering, environmental and sociopolitical shall be considered for all facilities.

1. Engineering Criteria

- **Site Location:**
The proposed facility should be located away from major population concentrations to reduce potential adverse environmental impacts. Depending upon the type of facility, each proposal will be judged separately based upon its own characteristics.
- **Accessibility:**
The proposed facility should be sited near a major thoroughfare. Trucks carrying solid waste should not be routed through neighborhoods, busy commercial areas or over insufficiently improved roads or streets.
- **Site Size & Shape:**
The proposed site for a facility should be large enough for the construction of the required buildings and structures, and provide sufficient space to allow areas to be laid out for optimum vehicle movement, parking, queuing space, and private vehicle/commercial truck separation.
- **Existing Zoning:**
Preferable sites should be compatible with existing zoning.
- **Access to Utilities:**
Preferable sites should have ready access to all required utilities including electricity, gas, potable water, processing water, wastewater disposal and telephones. All utilities should have adequate capacity to supply the facility with its design requirements.
- **Topography:**
Preferable sites should not have excessive or severe elevation differences and should have reasonable grades on access roads.
- **Soils and Geology:**
Existing soils of the site must be adequate to support structures, roads, highways and all proposed operations.

2. Environmental Criteria

- **Traffic:**

Preferable sites should minimize congestion and safety concerns. Turning functions, site distance from areas of heavy traffic congestion, facility traffic volume, noise and aesthetics are all factors that will be considered in evaluating the impact of facility traffic on existing flows within the vicinity of the site.

- **Noise:**
Preferable sites should have a minimum adverse impact on noise levels in surrounding residential or other noise-sensitive areas and must comply with existing sound ordinances. Noise levels may result from traffic to and from the facility, construction and operation of the facility.
- **Dust:**
Dust can be generated both during construction and operation of the facility. Steps to reduce dust during construction should be identified prior to advertising for bids, so those contractors may incorporate compliance with local nuisance codes and permit-to-install limitations into their bids. During facility operation, compliance with agreements for dust reduction, local health codes and the Mahoning County Board of Health inspectors will enforce the EPA regulations.
- **Wetlands:**
In the past, solid waste facilities were frequently located in what were called "swampy areas," but are now called wetlands. Because of the increased recognition of the importance of wetlands in providing wildlife habitat, State and/or Federal permits are generally required to site a facility in a wetlands area. Any proposed facilities must comply with these guidelines in the initial proposal.
- **Screening:**
Natural screens such as trees and topography should be utilized when designing the facility.

3. Sociopolitical Criteria

- **Negative Neighborhood Image/Property Values:**
Preferable sites should cause minimal real or perceived environmental or economic impacts on surrounding areas. Public opinion can be a major factor in the relative importance and effect of this criterion.
- **Public Attitude:**
Preferable sites should minimize public opposition by maximizing the sites' conformance to the physical and environmental criteria described above.
- **Governmental Cooperation:**
To reduce intergovernmental conflicts, the proposed facility should be located wholly within the District and should not cross the District boundary.
- **Public Participation:**
The facility siting process consists of a structured set of policies that guide the implementation of waste management goals within the social and political context. Over the last two decades, non-governmental interests have become increasingly involved in local decision making. The process of siting any proposed facility will be an open one with ample opportunity for public comment and review of documents, plans and potential impacts. When the Task Force starts evaluating a proposed facility, the public will be notified and encouraged to participate in any hearings.

4. Economic Criterion

- **Access to Markets:**

Convenient access to the markets for products produced at a facility may be an important factor, depending upon the type of facility and its output. Market determination is usually based on the market value of the material and the transportation cost to specific markets.

Evaluation and Ranking Scheme

Any proposed facility will be evaluated in terms of engineering, environmental and socioeconomic criteria, which will be ranked for the specific site. The exact scheme of ranking will depend upon the type of solid waste facility. This quantitative scheme will help the Task Force and the DPC's applicable operating committees examine a specific site according to its suitability. In developing the specific ranking and weighing criteria for the siting study, the Task Force and DPC committees may want to solicit expert opinion from a consultant.

The ranking scheme chosen to identify the suitability of a proposed site should be easily understood and replicable so people other than the Task Force can perform the method and arrive at similar results. The method should also be replicable in a reasonable amount of time.

The Task Force will begin evaluation of a proposed site by including the criteria in the "must list". The environmental and engineering criteria in the "must list" will not be ranked or weighted by the Task Force. A potential site must meet every criterion listed in the "must list". Those sites meeting all of the criteria in the "must list" will be further evaluated in terms of other criteria that will be ranked and weighed by the Task Force. For each criterion, this ranking can be a simple low, medium or high ranking, or can easily be converted to a quantitative ranking to show their relative importance.

Resolving Site Impasses through Mediation

Mediation is a technique widely used by government, industry, labor and management to resolve impasses. This formal process brings together representatives of opposing positions to work through a mediator (or a team of mediators) to resolve their conflicts. The mediator may clarify areas of agreement and disagreement by suggesting possible solutions to the conflict, and recommending methods to implement the solutions.

Public involvement will be encouraged for facilities involving controversy. The increased public involvement and Task Force's recommendations will aid in the identification of suitable sites and reduce controversy.

H. Contingencies for Capacity Assurance and District Program Implementation

At this time, there is no uncertainty associated with the demonstration of access to capacity (demonstration) or program implementation in the district's plan. The landfills in the District have guaranteed capacity assurance for the length of this plan.

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

TABLE VI-1
WASTE MANAGEMENT METHODS AND REQUIRED PROCESSING CAPACITY

YEAR	TONS OF SW GENERATED Table V-4 (Incl. Exempt)	TONS SOURCE REDUCED Table V-5 Table V-6	NET TONS TO BE MANAGED BY SWMD	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED					
				RECYCLING ¹	TRANSFER ²	YARD WASTE COMPOSTING ³	YV LAND APPLICATION	INCINERATION ⁴	MSW COMPOSTING
				TPY	TPY	TPY	TPY	TPY	TPY
2003	430,983	0	430,983	71,165	0	16,980	0	0	0
2004	432,416	0	432,416	76,728	0	5,076	0	0	0
2005	431,588	0	431,588	76,028	0	6,076	0	0	0
2006	428,927	0	428,927	93,517	0	6,752	0	0	0
2007	426,297	0	426,297	98,509	0	8,007	0	0	0
2008	423,696	0	423,696	104,484	0	8,476	0	0	0
2009	421,122	0	421,122	109,865	0	9,057	0	0	0
2010	418,576	0	418,576	115,442	0	9,301	0	0	0
2011	416,615	0	416,615	121,226	0	9,589	0	0	0
2012	414,683	0	414,683	127,226	0	9,877	0	0	0
2013	412,778	0	412,778	130,236	0	10,173	0	0	0
2014	410,900	0	410,900	133,325	0	10,478	0	0	0
2015	409,048	0	409,048	136,494	0	10,793	0	0	0
2016	406,920	0	406,920	139,749	0	11,116	0	0	0
2017	404,813	0	404,813	143,093	0	11,450	0	0	0
2018	402,729	0	402,729	146,530	0	11,793	0	0	0
2019	400,666	0	400,666	150,066	0	12,147	0	0	0
2020	398,624	0	398,624	153,705	0	12,512	0	0	0
2021	397,365	0	397,365	157,452	0	12,887	0	0	0
2022	396,128	0	396,128	161,312	0	13,274	0	0	0

Total Waste to Landfill (2006-2022) = 4,589,976

Sample Calculations:

1. "Recycling" taken from Tables V-5 and V-6.
2. "Transfer" projected at percent of total generation.
3. "Yard Waste" taken from Table V-5.
4. "Incineration" projected at percent of total generation.

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

TABLE VI-2
SUMMARY FOR RESIDENTAL/COMMERCIAL WASTE MANAGEMENT METHODS

YEAR	TONS OF SW GENERATED ¹ Table V-4 (less exempt)	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED					
		RECYCLING ¹ TPY	SOURCE REDUCTION ² TPY	INCINERATION ³ TPY	COMPOSTING ⁴ TPY	LANDFILLING ⁵ TPY	ASH DISPOSAL ⁶ TPY
2003	298,153	19,390	0	0	16,980	261,783	0
2004	299,320	25,193	0	0	5,076	269,051	0
2005	300,469	30,316	0	0	6,076	264,077	0
2006	299,745	39,886	0	0	6,752	253,106	0
2007	299,011	42,479	0	0	8,007	248,525	0
2008	298,267	45,934	0	0	8,476	243,857	0
2009	297,513	48,669	0	0	9,057	239,787	0
2010	296,748	51,468	0	0	9,301	235,980	0
2011	296,534	54,335	0	0	9,589	232,610	0
2012	296,312	57,272	0	0	9,877	229,164	0
2013	296,084	60,282	0	0	10,173	225,629	0
2014	295,849	63,371	0	0	10,478	222,000	0
2015	295,607	66,540	0	0	10,793	218,275	0
2016	295,057	69,795	0	0	11,116	214,146	0
2017	294,498	73,139	0	0	11,450	209,909	0
2018	293,930	76,576	0	0	11,793	205,560	0
2019	293,354	80,112	0	0	12,147	201,094	0
2020	292,769	83,751	0	0	12,512	196,506	0
2021	292,939	87,498	0	0	12,887	192,555	0
2022	293,104	91,358	0	0	13,274	188,473	0

Sample Calculations:

1. "Recycling" taken from Table V-5 (excluding yard waste and leaf collection program). Refer to footnote on Table V-5 regarding the one time City of Youngstown and Liberty Tire Remediation Project.
2. "Source Reduction" value taken from Table V-5.
3. "Incineration" is now an unacceptable method of disposal.
4. "Composting" equals leaf collection program plus yard waste program taken from Table V-5.
5. "Landfilling" = Tons Generated - Recycling - Yard Waste - (Incineration - Ash Disposal).
6. Incinerator "Ash Disposal" equal zero since incineration is illegal.

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

TABLE VI-3
SUMMARY FOR INDUSTRIAL WASTE MANAGEMENT METHODS

YEAR	TONS OF SW GENERATED Table V-4 (less exempt)	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED				
		SOURCE REDUCTION & RECYCLING ¹	INCINERATION ²	COMPOSTING	LANDFILLING ³	ASH DISPOSAL ⁴
		TPY	TPY	TPY	TPY	TPY
2003	130,642	51,775	0	0	78,867	0
2004	128,623	51,535	0	0	77,088	0
2005	126,646	45,712	0	0	80,934	0
2006	124,709	53,630	0	0	71,079	0
2007	122,813	56,030	0	0	66,783	0
2008	120,956	58,550	0	0	62,406	0
2009	119,137	61,196	0	0	57,941	0
2010	117,354	63,974	0	0	53,380	0
2011	115,608	66,891	0	0	48,717	0
2012	113,897	69,954	0	0	43,943	0
2013	112,221	69,954	0	0	42,267	0
2014	110,578	69,954	0	0	40,624	0
2015	108,968	69,954	0	0	39,014	0
2016	107,390	69,954	0	0	37,436	0
2017	105,843	69,954	0	0	35,889	0
2018	104,326	69,954	0	0	34,372	0
2019	102,840	69,954	0	0	32,886	0
2020	101,382	69,954	0	0	31,428	0
2021	99,953	69,954	0	0	29,999	0
2022	98,551	69,954	0	0	28,597	0

Sample Calculations:

1. "Recycling" taken from Table V-6.
2. "Incineration" projected at percent of total generation.
3. "Landfilling" = Tons Generated - Recycling - (Incineration - Ash Disposal).
4. "Ash Disposal" projected at 0.5% decrease per year.

WASTE MANAGEMENT METHODS TO BE USED BY THE DISTRICT: LANDFILL AND TRANSFER STATIONS

TONS OF DISTRICT SOLID WASTE MANAGED BY EACH FACILITY¹

FACILITIES USED BY THE DISTRICT NAME		AND LOCATION		PROCESSING CAPACITY (TPD)	Tons Treated for Waste Placement	Air Space Gross Volume (CY)	YEARS	2003%	TONS OF DISTRICT SOLID WASTE MANAGED BY EACH FACILITY**																														
2003	2004	2005	2006						2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022															
BRI CARBON LIMESTONE LANDFILL	Brownington-Ferries Industries of Ohio, Inc.	1800 South Stone Line Road	Lonelyville, OH 44314	6,500	31,18,858	39,727,091	20.9	51.0%	174,904	198,223	190,049	178,724	173,896	183,214	178,182	173,248	168,512	163,665	160,992	266,311	260,991	255,301	249,534	243,686	237,751	231,723	226,358	220,891	-	-	-	-	-	-	-	-	-	-	
Brownington-Ferries Industries of Ohio, Inc.	Carbon-Limestone Sanitary Landfill	3510 Garfield Road	New Spangfield, OH 44413	2,500	3,497,799	5,323,408	10.5	40.7%	139,687	142,938	142,395	133,910	130,292	126,607	123,130	119,720	116,447	113,098	110,975	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRAL WASTES LANDFILL	Central Wastes, Inc.	12003 Oyster Rd	Alliance, OH 44601	3,000	140,780	192,223	0.8	3.1%	10,591	4,887	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AMERICAN LANDFILL	American Waste Services, Inc.	7916 Chapel Street, SE	Warrensburg, OH 44688	15,000	6,303,352	8,754,655	3.9	4.6%	15,707	1,760	16,011	15,057	14,651	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AWS AMERICAN TIRE MONOFILL	American Waste Services, Inc.	7916 Chapel Street, SE	Warrensburg, OH 44688	492	329,893	1,682,199	74	0.11%	385	392	695	369	359	349	330	321	306	294	288	281	274	268	261	255	249	243	237	231	225	219	213	207	201	195	189	183	177		
RW COUNTYWIDE LANDFILL	Countywide Recycling and Disposal Facility	3619 Glencourt Avenue, SW	East Sparta, OH 44526	7,000	53,330,821	71,374,428	38.8	0.09%	322	328	309	300	292	284	276	268	261	256	246	240	235	230	224	218	213	207	201	195	189	183	177	171	165	159	153	147	141		
KIMBLE SANITARY LANDFILL	Kimble Clay and Limestone	3606 Stone House 39, NW	Dover, OH 44622	5,000	27,521,517	45,607,085	92.3	0.01%	23	105	23	22	21	21	20	19	18	18	17	17	17	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
SUBURBAN SOUTH ROAD FACILITY LANDFILL	Waste Management of North America, Inc.	Shubert South Recycling and Disposal Facility	Stark, OH 43081	5,000	14,256,788	16,197,862	23.5	0.01%	32	83	33	31	29	28	27	26	25	25	24	24	23	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
LIBERTY TIRE / C&E COAL TIRE PROJECT	Brownsville, OH 43721	P.O. Box 17	Stark, OH 43081	5,000	14,256,788	16,197,862	23.5	0.01%	32	83	33	31	29	28	27	26	25	25	24	24	23	23	23	23	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
EVERGREEN R&D LANDFILL	Waste Management of Ohio, Inc.	2625 East Broadway	Northwood, OH 43619	500	5,178,70	9,086	0.2	0.27%	940	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WASTE MANAGEMENT OF OHIO, INC.	Evergreen Recycling and Disposal Facility	2625 East Broadway	Northwood, OH 43619	7,500	6,374,996	11,380,139	14.1	0.07%	247	129	252	237	230	224	218	212	206	196	192	189	184	180	176	172	167	164	160	-	-	-	-	-	-	-	-	-	-	-	
Brownington-Ferries Industries of P.A., Inc.	Imperial Sanitary Landfill	11 Rogers Road	Imperial, PA 15126	4,666	18,753,422	27,700,771	21.5	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Brownington-Ferries Industries of P.A., Inc.	Imperial Sanitary Landfill	1187 State Route 225	Willowbrook Sanitary Landfill	3,000	12047620	7300,857	7.8	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Brownington-Ferries Industries of P.A., Inc.	Imperial Sanitary Landfill	635 Toley Road	Kissenvale, PA	6,000	12,480,045	16,964,944	6.5	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Brownington-Ferries Industries of P.A., Inc.	Waste Systems, Inc.	1901 Erie Avenue, SE	Warren, OH	2,500	13,077,600	16,347,000	75.8	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Brownington-Ferries Industries of P.A., Inc.	Waste Systems, Inc.	1901 Erie Avenue, SE	Warren, OH	2,100	1,914,287	2,244,900	3.9	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Doherty Sanitary Landfill, Inc. (aka Geneva Landfill)	Doherty Sanitary Landfill, Inc. (aka Geneva Landfill)	2381 Tritel Road	Geneva, OH 44041	2,100	1,914,287	2,244,900	3.9	0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-4
WASTE MANAGEMENT METHODS TO BE USED BY THE DISTRICT: LANDFILL AND TRANSFER STATIONS

FACILITIES USED BY THE DISTRICT NAME AND LOCATION	PROCESSING CAPACITY (TPD)	Tons for waste Placement	Air Space Gross Volume (CY)	YEARS	2003%										
					2003										
					2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
County Environmental Wjyndot Landfill 11164 County Road 4 Craw, OH 43316	3,500	18,412,680	23,606,000	54.2	0	19	0	0	0	0	0	0	0	0	0
Pine Grove Regional Facility Landfill 5131 Dinkle Rd SW Amunda, OH 43102	5,000	12,517,810	20,263,017	43.7	0	19	0	0	0	0	0	0	0	0	0
District Totals:					342,838	349,314	349,484	338,658	319,781	310,735	302,201	293,833	285,800	277,580	272,369

TONS OF DISTRICT SOLID WASTE MANAGED BY EACH FACILITY ^{1,2}															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2014	2015	2016	2017	2018	2019	2020
267,097	261,762	256,054	250,271	244,406	238,453	232,407	227,026	221,543	267,097	261,762	256,054	250,271	244,406	238,453	232,407

District Waste Landfilled in-District 225,182 346,149 332,444 312,834 304,189 309,821 301,311 292,968 284,969 276,763 271,567 266,311 260,991 256,301 249,634 243,686 237,751 231,723 226,358 220,891

District Waste Landfilled Projection from Table VI-1 342,838 350,812 349,484 328,658 319,781 310,735 302,201 293,833 285,800 277,580 272,369 267,097 261,762 256,054 250,271 244,406 238,453 232,407 227,026 221,543

1. The 2003 value was taken from Table 14 of the 2003 FDR report. The value includes Asbestos, General, Industrial, Exempt and Other waste.

2. The 2004 values are from the Ohio EPA Annual District Report Form for 2004.

FACILITIES USED BY THE DISTRICT NAME AND LOCATION	PROCESSING CAPACITY (TPD)	Tons for waste Placement	Air Space Gross Volume (CY)	YEARS	2003%										
					2003										
					2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Rumple Waste, Inc. 21955 Flassel Drive Chickville, OH 43113	114,259	112,502	NA	NA	0	0	0	0	0	0	0	0	0	0	0
R.C. Miller Refuse Service, Inc. 1800 9th Street, NE Stark Recycling Center, Inc. / Transfer Station Canton, OH			NA	NA	0	0	0	0	0	0	0	0	0	0	0
Waste Management of Ohio-Akron Akron Central Transfer Station 389 Fountain Street Akron, OH 44306	301,294	2,897,510	NA	NA	0	3	0	0	0	0	0	0	0	0	0
Total Waste Logistics (aka, LAS Resource / Recovery, Inc.) 1025 Bundy Road Youngstown, OH 44509	19,623	19,623	NA	NA	4.1244%	14,140	9,985	14,414	13,555	13,189	12,816	12,464	12,119	11,788	11,449
Cleveland Transfer / Recycling Station 7450 Oakleaf Road Oakwood Village, OH 44146	362,306	334,850	NA	NA	0.0044%	15	16	14	14	14	13	13	13	12	12
Kimble Transfer and Recycling Station 2295 Bolivar Road SW Canton, OH 44706	85,348	19,192	NA	NA	0.0023%	8	96	8	8	7	7	7	7	7	6
Warren Recycling Inc. / Warren Hills LLC 300 Martin Luther King Warren, Ohio	119,848	119,848	NA	NA	0.9255%	3,173	5,207	3,233	3,042	2,960	2,876	2,797	2,719	2,645	2,569

TONS OF DISTRICT SOLID WASTE MANAGED BY EACH FACILITY ^{1,2}															
2014	2015	2016	2017	2018	2019	2020	2021	2022	2014	2015	2016	2017	2018	2019	2020
2,521	2,472	2,423	2,370	2,316	2,262	2,207	2,151	2,101	2,521	2,472	2,423	2,370	2,316	2,262	2,207

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-4 (CONT'D)
WASTE MANAGEMENT
METHODS TO BE USED BY THE DISTRICT: Recycling

FACILITIES USED BY THE DISTRICT		PROCESSING	TONS OF MAHONING COUNTY SOLID WASTE MANAGED BY EACH FACILITY																			
NAME AND LOCATION		CAPACITY (TPD)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alliance Recycling Center (Drop-off)		39,000	1,570	1,821	2,035	2,849	2,934	3,663	3,773	3,886	4,003	4,123	4,246	4,374	4,505	4,640	4,779	4,923	5,070	5,223	5,379	5,541
Allied Waste (Curbside - Unit-Paper)		N/A	4,318	3,887	3,556	5,646	5,702	5,759	5,817	5,875	5,934	5,993	6,053	6,114	6,175	6,237	6,299	6,362	6,426	6,490	6,555	6,620
Battery Solutions (Household Battery)			7	7	37	38	32	32	32	32	32	32	32	32	32	32	32	32	32	32	7	7
Clean Habitats (HHW)			186	133	84	46	47	49	50	51	53	54	56	57	59	61	64	66	68	70	71	73
Driver Steel City (Appliance Drive)			90	1,762	137	134	128	128	128	128	135	135	135	135	135	135	135	135	135	135	135	135
Liter Collection Adopt-a-Road Recycling Program		N/A	112	137	134	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128	128
Phoenix Disposal (School Fiber)			100	427	1,359	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410
Pittsburg Recycling (Drop-off)			401	465	520	728	750	936	964	1,023	1,053	1,085	1,118	1,151	1,186	1,221	1,258	1,296	1,335	1,375	1,416	
Robert's Battery Service (LAB Program)			10	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Secure Shredd (Office Paper)			0	900	2,250	3,600	4,950	6,300	7,650	9,000	10,350	11,700	13,050	14,400	15,750	17,100	18,450	19,800	21,150	22,500	23,850	
Alliance Recycling Center		433	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685	685
Associated Paper Stock		13,000	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520	3,520
Atlas Recyclers		46,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allied Waste Commercial Cardboard			3,031	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225
Cardinal Tire		N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Casual Carpet			0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Cintas			0	0	0	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
Goodwill Industries			0	0	0	728	728	728	728	728	728	728	728	728	728	728	728	728	728	728	728	728
Flowland Trumbull Recycling Center		N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Humanitarian Education			0	0	0	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
IGA			0	0	0	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Iron City Wood Products		N/A	222	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540
Niles Iron and Metal		910,000	480	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673	1,673
Overflow		N/A	690	919	922	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896
Planet Aid		N/A	0	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234	234
Prime Paper			379	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277	277
RECY Corp. (Computer Recycling)		N/A	0	0	0	36	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Second Harvest Food Bank			0	0	0	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268
Secure Shredd (Secure Shredd)		2,600	40	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320	320
The Concern			0	0	0	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
Tri-County Recycling			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unicor		N/A	0	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Universal Computer Technologies			0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Waste Management of Ohio		N/A	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943
Scrap Metal Dealers (Res/Comm)			0	135	392	662	945	1,243	1,555	1,883	2,228	2,589	2,969	3,368	3,786	4,226	4,687	5,172	5,681	6,215	6,776	7,368
Broadway Iron & Metal			0	284	284	554	837	1,135	1,447	1,775	2,120	2,481	2,861	3,260	3,678	4,118	4,579	5,064	5,573	6,107	6,668	7,256
Chuck's West Side Recycler		624	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Driver Steel City (Trousers)		26,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Trading Co.		N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scrap Metal Dealers (Industrial)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Broadway Iron & Metal			0	11,999	12,599	13,229	13,891	14,585	15,315	16,080	16,880	17,700	18,550	19,430	20,340	21,280	22,250	23,250	24,280	25,340	26,430	27,520
Center St. Auto			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Midwest Steel & Alloy			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
U.S. Trading Co.			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Youngstown Iron & Metal			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
District Programs (Tons not included Brokers/recyclers)			43,535	43,535	45,712	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CERT			43,535	43,535	45,712	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cash for Cans			9	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Back Yard Composting			0	45	46	48	49	51	52	54	54	57	59	62	64	66	68	70	72	74	77	
X-mas Tree Recycling			9	47	24	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Leaf Collection Program			-	-	-	494	1,561	1,837	2,218	2,257	2,334	2,404	2,476	2,550	2,627	2,706	2,787	2,871	2,957	3,045	3,137	3,231
Youngstown Mag/Catalog Drives			8,240	8,000	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Materials Exchange Database		N/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Create			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN

TABLE VI-4 (CONT'D)
WASTE MANAGEMENT

METHODS TO BE USED BY THE DISTRICT: Recycling And Composting

FACILITIES USED BY THE DISTRICT	PROCESSING CAPACITY (TPD)	TONS OF MAHONING COUNTY SOLID WASTE MANAGED BY EACH FACILITY																	
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020

Composting Facilities																					
A-1 Tree Service	15210 W. Pinchake Road	Salen, OH 44460	did not report	not on EPA list	0																
AFC Co.	5183 Western Reserve Road	Canfield, OH 44406	not on ADR	did not report	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boardman Township	Boardman Township	Canfield, OH 44406	not on ADR	did not report	did not report	1,122	1,122	1,190	1,226	1,263	1,301	1,340	1,380	1,421	1,464	1,508	1,553	1,600	1,648	1,697	1,854
Brians Lawn Service	13940 Ehon Road	North Lima, OH 44452	not on ADR	did not report	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buckeye Lawn Service	8696 Columbiana-Canfield Road	Canfield, OH 44406	did not report	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buckeye Wrecking Tans/Recycl, Inc.	1500 S. Meridan Avenue	Alliance, OH 44601	not on ADR	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBS Topsoil	1616 North Bailey Road	North Jackson, OH 44451	380	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
County Compost Company	10135 Leffingwell Road	Canfield, OH 44406	did not report	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crim Household	4561 Tippecanoe Road	Youngstown, OH 44511	not on ADR	did not report	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Custom Blanded Soils, Inc.	7055 Herbert Road	Canfield, OH 44406	did not report	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Custom Compost Company	12926 Mahoning Avenue	North Jackson, OH 44451	not on ADR	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lawn Rager Composting	6800 Symne Road	Lowellville, OH 44436	did not report	226	233	240	247	254	262	270	278	286	295	304	313	322	332	342	352	363	374
McIlhenners, Inc.	2310 West South Range Road	North Lima, OH 44452	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nick Del Signore	Kennedy Road	Lowellville, OH 44436	did not report	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Poland Village Composting	308 South Main Street	Poland, OH 44514	not on ADR	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Residence	4932 South Turner Road	Canfield, OH 44406	did not report	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S.K. Landscap, Inc.	12760 Woodworth	New Springfield, OH 44443	not on ADR	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saunders and Sons Topsoil	1299 East Western Reserve Road	Poland, OH 44514	did not report	3,636	3,745	3,858	3,973	4,093	4,215	4,342	4,472	4,606	4,745	4,887	5,033	5,184	5,340	5,500	5,665	5,835	6,010
Springfield Leaf Compost	Springfield Road	Springfield, OH 44442	not on ADR	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City of Struthers Compost	100 South Bridge Street	Struthers, OH 44471	100	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trees and Lawn Landscap, Inc.	13159 Woodworth Road	New Springfield, OH 44443	did not report	did not report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Twin Lakes Comp Farm	9594 Akron-Canfield Road	Canfield, OH 44406	not on ADR	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uhrin Greenhouses	704 Maple Avenue	Boardman, OH 44512	not on ADR	not on EPA list	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unreported Facilities					1,047	1,078	1,111	1,144	1,178	1,214	1,250	1,288	1,326	1,365	1,407	1,449	1,493	1,538	1,584	1,631	1,731
TOTAL				81,804	82,105	100,269	106,517	112,961	118,921	124,743	130,815	137,103	140,410	143,802	147,286	150,865	154,543	158,324	162,214	166,217	174,585

1 Anticipated composting tonnage is anticipated as facilities come into compliance with Ohio EPA reporting requirements. This line conservatively accounts for tonnage anticipated from the facilities that did not initially report values in 2004.

**MAHONING COUNTY SOLID WASTE MANAGEMENT PLAN
TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS
AND ACTIVITIES: DATES AND DESCRIPTION**

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN	
			OPERATIONS BEGIN	OPERATIONS CEASE
Opportunity to Recycle Program (Curbside)	Austintown Twp., Boardman City, Canfield Twp., New Middletown Village, Poland Twp., Struthers, Lowellville Village, and Youngstown	Entire District	1991	2022
			1991	2022
Austintown Township	Township Building, 82 Ohltown Road	All sites collect Newspaper, Glass Bottles, Plastics, Aluminum Cans, Bi-Metal Cans, Cardboard, Magazines, Catalogs, Phonebooks.	1991	2022
Austintown Township	Trustee Park, 1075 South Raccoon Road		1991	2022
Austintown Township	Fire Station 1690 South Turner Road		2006	2022
Austintown Township	Austintown Park 6000 Kirk Road		2006	2022
- Beaver Township	Township Building, 601 West South Range Road		1991	2022
- Berlin Township	Township Building, 15823 West Akron-Canfield Road, Berlin Center	Berlin Township also accepts Lead Acid Batteries and Used Motor Oil	1991	2022
- Boardman Township	Fire Station, 6169 South Avenue		1991	2022
- Boardman Township	Township Building, 8299 Market Street		2004	2022
- Boardman Township	Fire Station, 1200 Shields Road at Lockwood Blvd.		1994	2022
- Boardman Township	Township Building, 3737 McCartney Road		1991	2022
- Boardman Township	Township Building, 6036 S. Salem-Warren Road		1991	2022
- Boardman Township	Maintenance Building, 12649 Seacrest Road, Goshen	Goshen Township also accepts plastic 6-pack holders	1991	2022
- Boardman Township	Township Building, 12184 Lisbon Road, Greenford	Green Township also accepts plastic 6-pack holders	1991	2022
- Boardman Township	Fire Station, 229 N. Salem- Warren Road		1991	2022
- Boardman Township	Lowellville Maintenance Building 3 West McCaffrey Avenue		2006	2022
- Boardman Township	Township Building, 15992 Mahoning Avenue	Milton Township also accepts Lead Acid Batteries and Used Motor Oil	1991	2022
- Boardman Township	Lake Milton State Park, 2541 Grandview Avenue		1993	2022
- Boardman Township	Road Department, 7474 Clinegan Road		1996	2022
- Boardman Township	Maintenance Building, 800 North 18th Street, Sebring		1993	2022
- Boardman Township	Township Building, 846 North Styrofoam egg cartons during schools months only.		1991	2022
- Boardman Township	Fire Station, 5th Street, Beloit		1991	2022
- Boardman Township	Township Building, 3475 East South Range Road		1991	2022
- Boardman Township	Water Tower, 10720 Struthers Road, New Middletown		1991	2022
- Boardman Township	Struthers, City Hall, 6 Elm Street		1991	2022
- Boardman Township	Campbell, City Hall, 351 Tenney Avenue		1991	2022
- Boardman Township	Youngstown State University, Harrison and Adams Street		1998	2022
- Boardman Township	Martin Luther Lutheran Church 420 Clearmont Dr.		2006	2022
- Boardman Township	McGuirey Plaza 795 North Garland Avenue		2006	2022

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS
AND ACTIVITIES: DATES AND DESCRIPTION

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN OPERATIONS BEGIN	CEASE OPERATIONS
- Youngstown	ReNu Paints 166 South Meridian Road	All sites collect Newspaper, Glass Bottles, Plastics, Aluminum Cans, Bi-Metal Cans, Cardboard, Magazines, Catalogs, Phonebooks.	2006	2022
- Canfield Township	Road Department 5035 McAsserty Road		2004	2022
- Canfield Township	McCone Field 5627 Shield Road		2004	2022
- Canfield Township	Mill Creek Metro Parks 7574 Columbiana Canfield Road		2006	2022
- Canfield Township	Boys & Girls Club of Youngstown, 2105 Oak Hill,		2006	2022
- Youngstown	Youngstown, Ohio		2006	2022
- Poland	Community Baseball Association, Sheridan Rd., Poland, Ohio		2006	2022
- Lake Milton	Lake Milton State Park, Carson's Landing, Lake Milton, Ohio		2006	2022
- 10 new Drop-off sites	Final Sites to be Selected		2007	2022
School Fiber Program	Schools throughout District		2003	2022
Christmas Tree Recycling Project	16 locations throughout District		1992	2022
Office Paper Recovery Program	County Offices (1990), Public Offices (1995), Commercial offices added (2005) throughout District		1990	2022
Appliance Drive	Various Locations			
Waste Tire Removal & Disposal	County Engineer, and local communities		1994	2022
Electronics Drive	Various Locations		2003	2010
Magazine/Catalog Recycling Drives	Entire District		1994	2022
Household Hazardous Waste Collection	Event Locations vary		1991	2022
Household Battery Collection	Libraries, Schools, Gov't offices throughout District		2000	2022
Lead Acid Battery Program	Milton and Berlin Twp Drop-offs and www.greensteam.co		1991	2022
Competitive Funding Program	Local Governments		1999	2022
Litter and Illegal Dumping Law Enforcement	Entire District		2005	2022
Litter Collection and Adopt-a-Road	Entire District		1986	2022
Industrial/Comm Waste Reduction Program	Entire District		1992	2022
- CBRIT	YSU		1996	2004
- re:Create	Various Locations		2005	2022
- Materials Exchange Database	www.greensteam.co		1994	2022
- Waste Assessment Program	Entire District		2006	2022
Recycling Promotion Campaign	Entire District		1992	2022
- Cash-for-Cans	Schools throughout District		1988	2022
- Design a Placemat	District Schools		1991	2022
- Litter Prevention and Recycling Education	Entire District		1991	2022
- Environmental Workshops	Entire District		1991	2022
- Public Presentations	Entire District		1991	2022
- Promotional Activities	Entire District		1991	2022
- Advertisement	Entire District		1991	2022
- Backyard Composting	Entire District		1988	2022
- Resource Library	Entire District		1991	2022
- Pay-as-you-throw	Entire District		1991	2022
- Build America Beautiful	IBA and housing Developments		1997	2022
- Recycling Alternatives Directory	Entire District		1991	2022
- District web site	www.greensteam.co		2001	2022
RREAP	Rural Townships of District		1994	2022
Material Recovery Facility	Lowellville		2007	2022
District Headquarters	To be Determined		2007	2022
Yard Waste Recycling	Various Locations		1991	2022
Leaf Collection Program	Urban Communities		2006	2022

MAHONING COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

TABLE VI-6
FACILITIES IDENTIFIED AND CURRENT DESIGNATIONS

FACILITIES IDENTIFIED		FACILITIES CURRENTLY DESIGNATED	
FACILITY NAME	LOCATION	FACILITY NAME	LOCATION
Liberty Tire Project	14864 Lincoln St. SE Mineralva, OH 44657	American Waste Services, Inc.	7916 Chapel Street, S.E. Waynesburg, OH 44688
Seneca Landfill	P.O. Box 1080 Mars, PA 16046 724-625-9000	Browning-Ferris Industries of Ohio, Inc.	8100 South State Line Road Lowellville, OH 44436
Cleveland Transfer / Recovery Station	7450 Oakleaf Road Oakwood Village, OH 44146 (440) 786-1300	Central Waste, Inc.	12003 Oyster Road Alliance, OH 44601
Kimble Transfer and Recycling Station	2295 Bollivar Road SW Canton, OH 44706 (330) 454-9400	Waste Management of Ohio, Inc.	3619 Gracemont Avenue, S.W. East Sparta, OH 44626
Warren Recycling, Inc. / Warren Hills LLC	300 Martin Luther King Warren, OH	Waste Management of Ohio, Inc. Evergreen	2625 East Broadway Northwood, OH 43619
Pine Grove Regional Facility Landfill	5131 Detmold Rd SW Amma, OH 43102 (740) 969-4487	Kimble Clay & Limestone Kimble Sanitary Landfill	3696 State Route 39, N.W. Dover OH 44622
		American Waste Services, Inc. Mahoning	3510 Garfield Road New Springfield, OH 44443
		Waste Management of North America, Inc.	State Route 668, P.O. Box 17 Brownsville, OH 43721
		American Waste Services, Inc.	7916 Chapel Street, S.E. Waynesburg, OH 44688
		Waste Management of P.A., Inc.	851 Robinson Road East Eto, PA 16509
		WMX Technologies, Inc.	P.O. Box 1798 Butler, PA 16003-1798
		(Formerly Waste Management, Inc.	
		Northwest Sanitary Landfill, Inc.	
		Rumpke Waste, Inc. Sanitary Landfill	9427 Beyers Road Georgetown, OH 45121
		Rumpke Waste, Inc. Sanitary	21955 Hassel Drive Circleville, OH 43113
		Rumpke Sanitary Landfill, Inc.	10795 Hughes Road Cincinnati, OH 45251
		Browning-Ferris Industries of P.A., Inc.	P.O. Box 47 Route 9810 and Boggs Road Imperial, PA 15126
		Browning-Ferris Industries of Ohio, Inc.	1187 State Route 225 Atwater, OH 44201
		Willowcreek Sanitary Landfill	635 Toby Road Kersey, PA
		Browning-Ferris Industries of P.A., Inc.	Greencree Sanitary Landfill
		Stericycle Inc.	1901 Pine Avenue, S.E. Warren, OH
		(Browning-Ferris Industries Medical Waste Systems, Inc.	
		R.C. Miller Refuse Service, Inc.	1800 9th Street, N.E. Canton, OH
		Stark Recycling Center, Inc.	
		Transfer Station	
		MAX Disposal and Recycling	1356 Harrisburg Road P.O. Box 2688 Alliance, OH 44601-0688
		American Waste Services, Inc.	44295 Y & O Road Madison Township, OH 43968
		East Liverpool Landfill	
		American Waste Services, Inc.	7916 Chapel Street, S.E. Waynesburg, OH 44688
		The American Waste Processing Facility	
		Athens-Hocking Reclamation Center	P.O. Box 946 Logan, OH 43138
		Waste Management of Ohio-Akron	389 Fountain Street Akron, OH 44306
		Geneva Landfill (Doherty Sanitary Landfill, Inc.)	2581 Tuttle Road Geneva, OH 44041
		County Environmental	11164 County Road 4 Carey, OH 43316
		Wyandot Landfill	
		Total Waste Logistics	1025 Bundy Road Youngstown, OH 44509
		(LAS Resource / Recovery, Inc.)	

In cases where facility name has changed, the name listed on the resolution is shown in parentheses